

10

FIG. 1

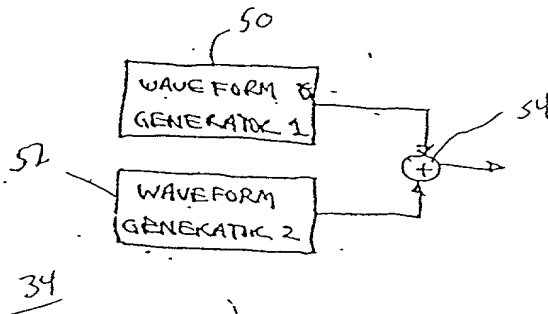
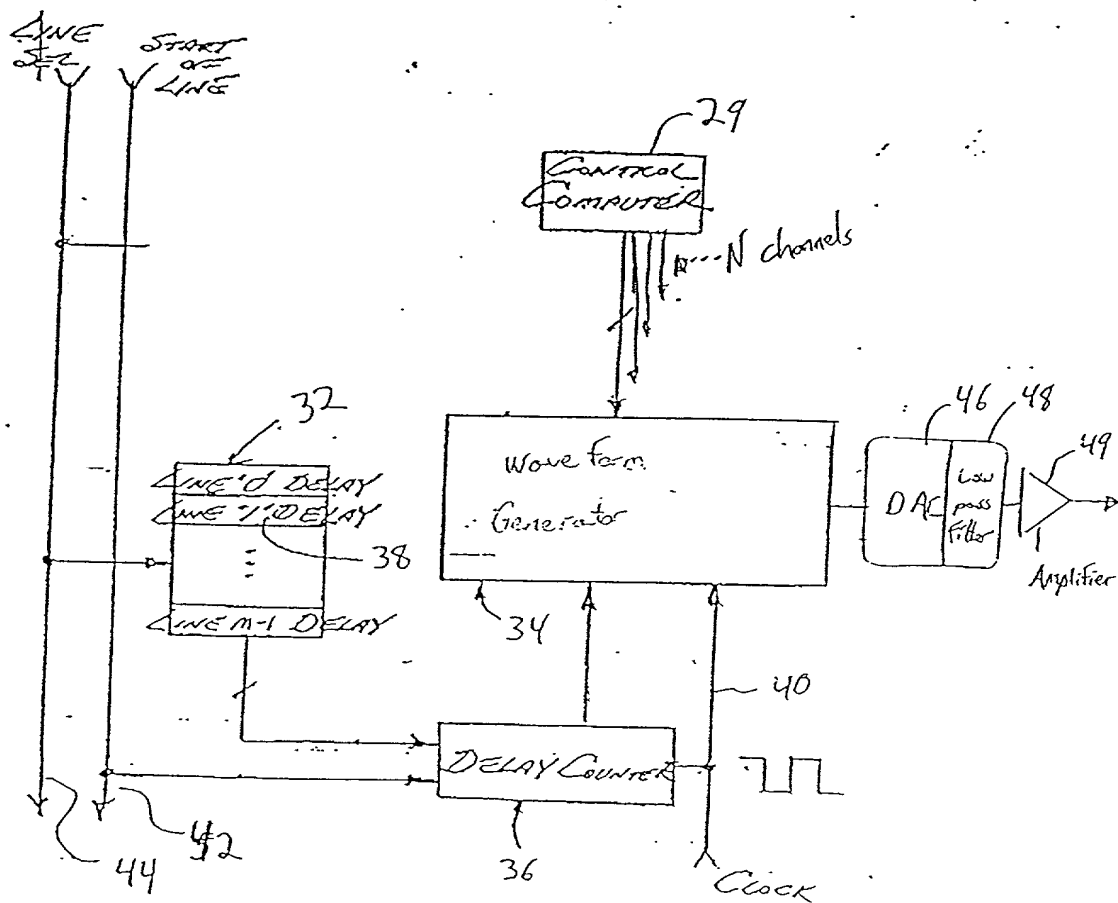


FIG. 3

- FIGURE 2.



N CHANNELS

30 (TRANSMIT BEAMFORMING)

05184407.051801

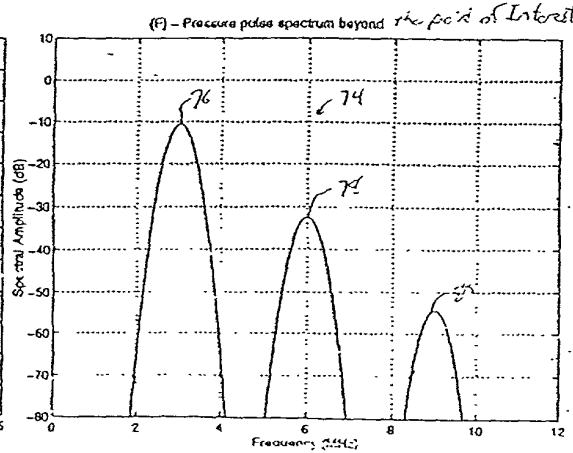
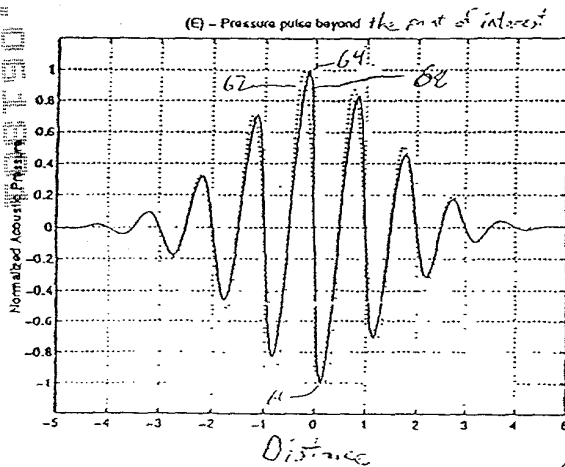
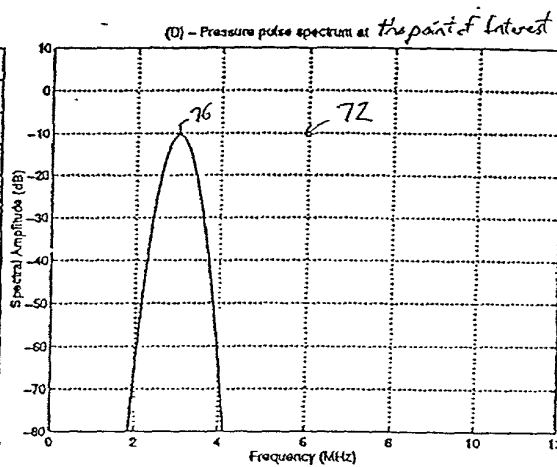
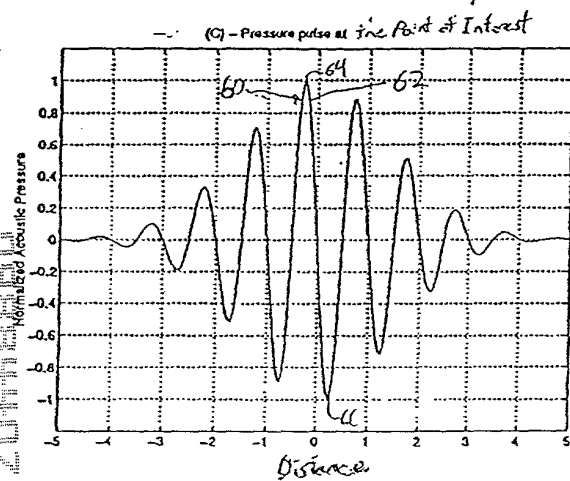
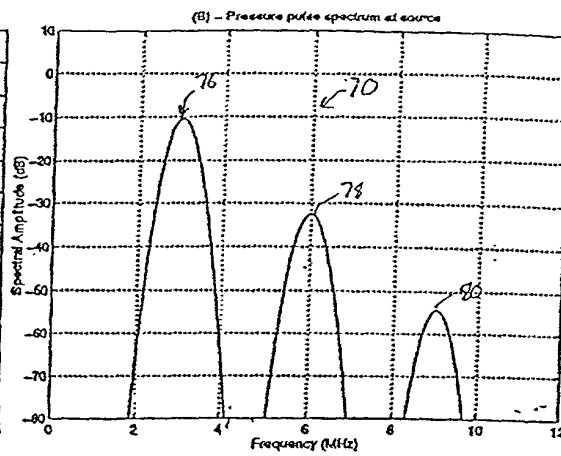
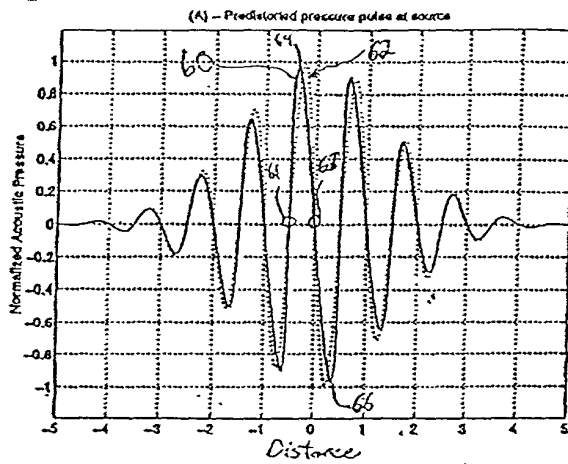


FIG 4

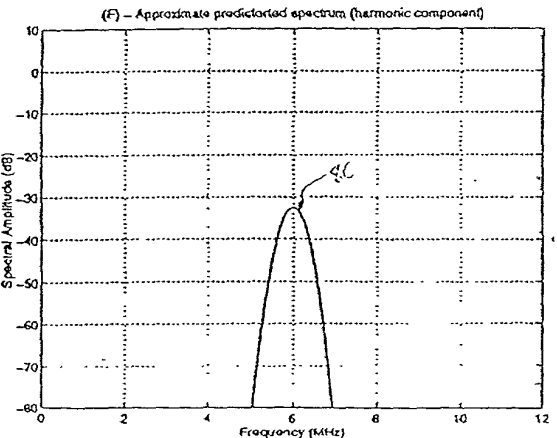
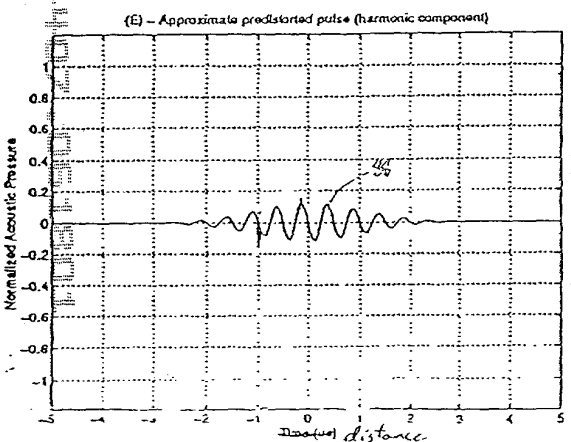
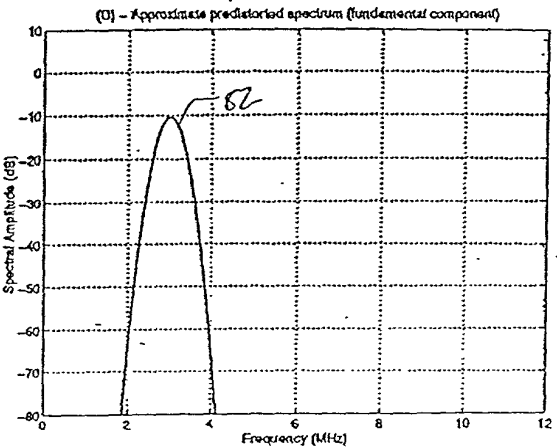
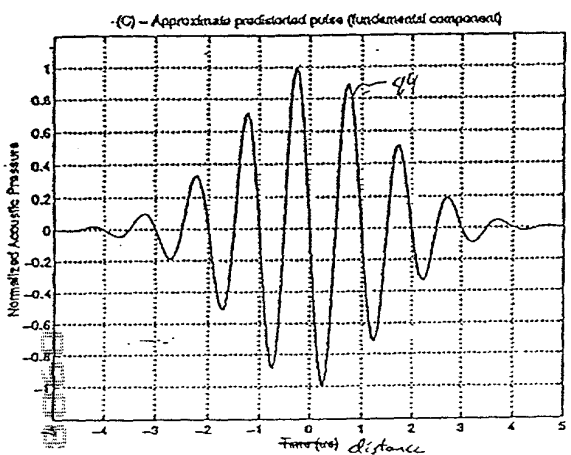
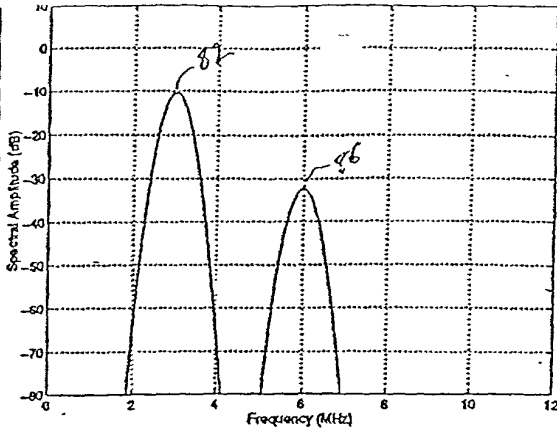


FIG. 5

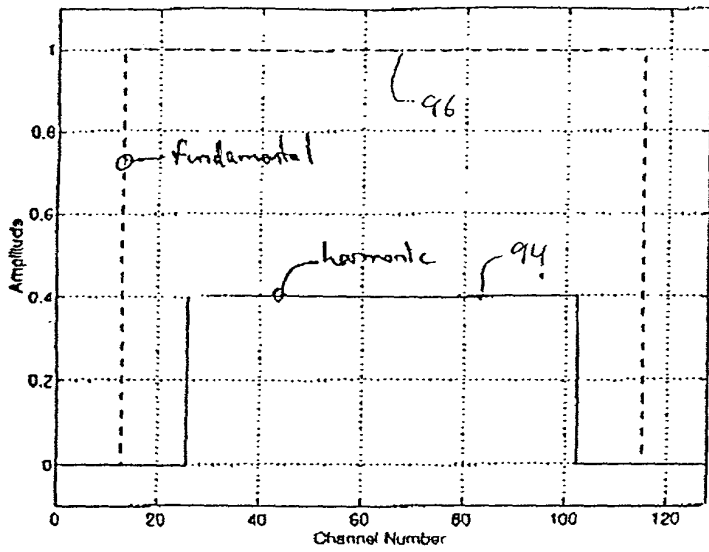


FIG. 6A

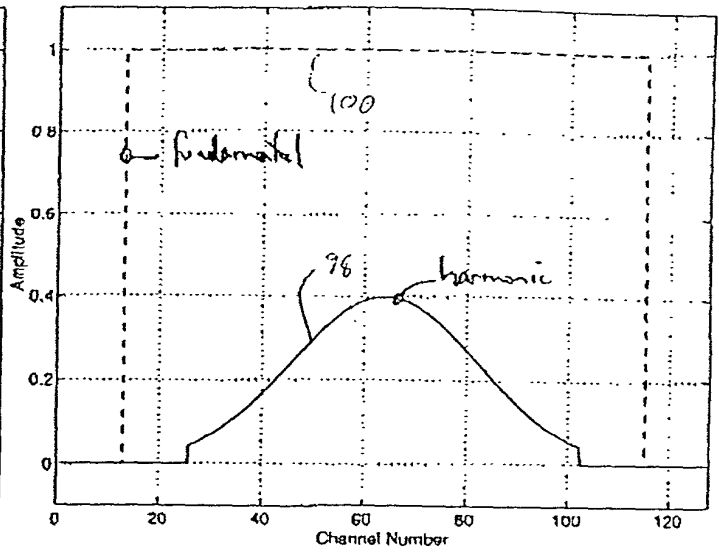


FIG. 6B

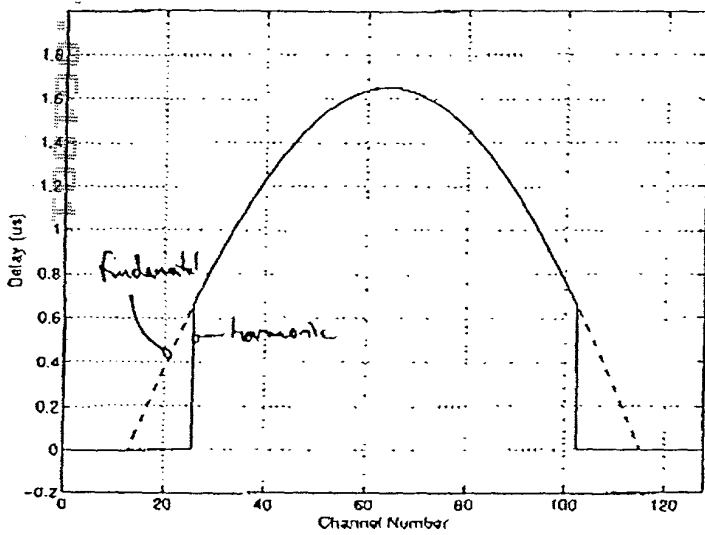


FIG. 6C

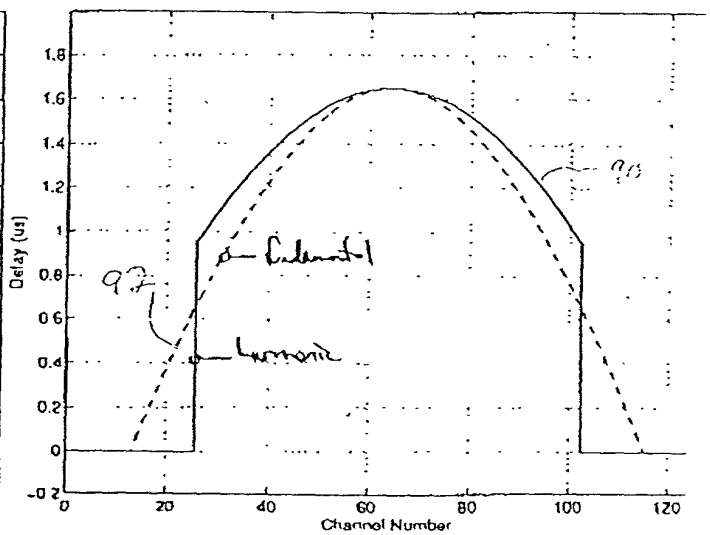


FIG. 6D

FIG. 6

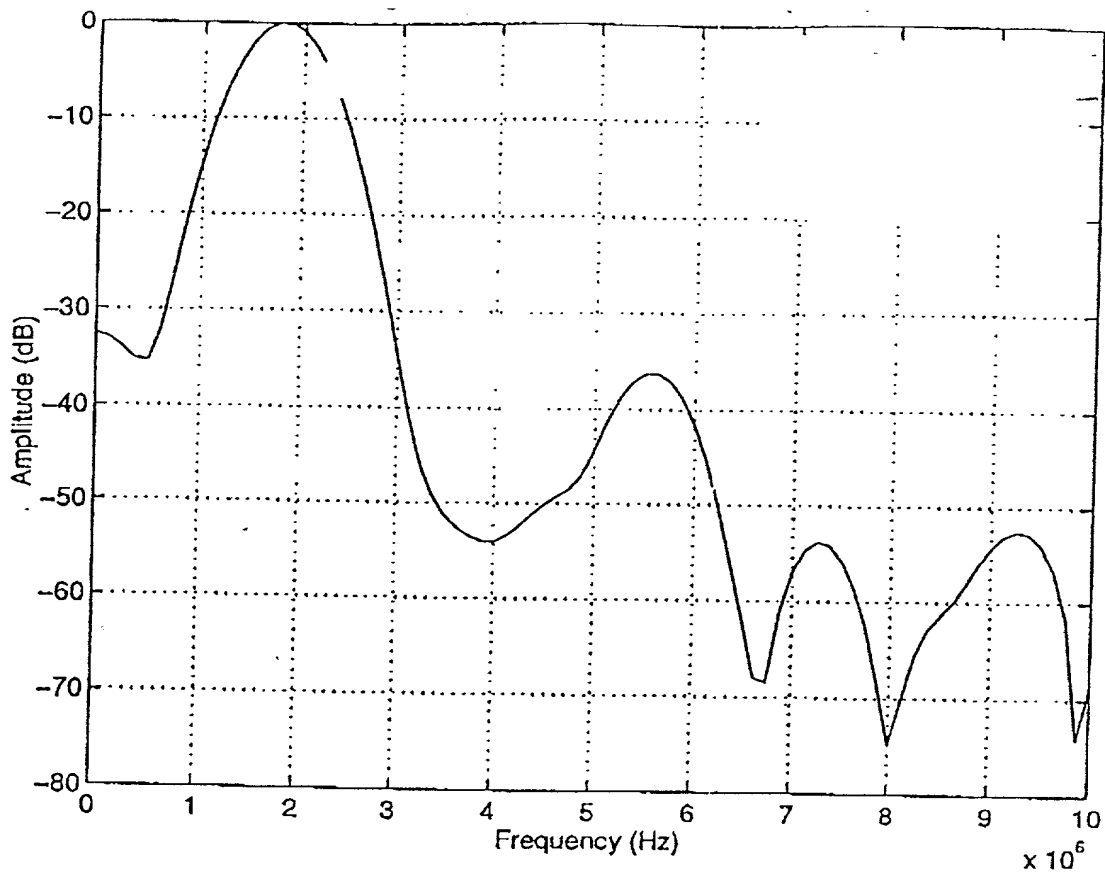


Figure 7A

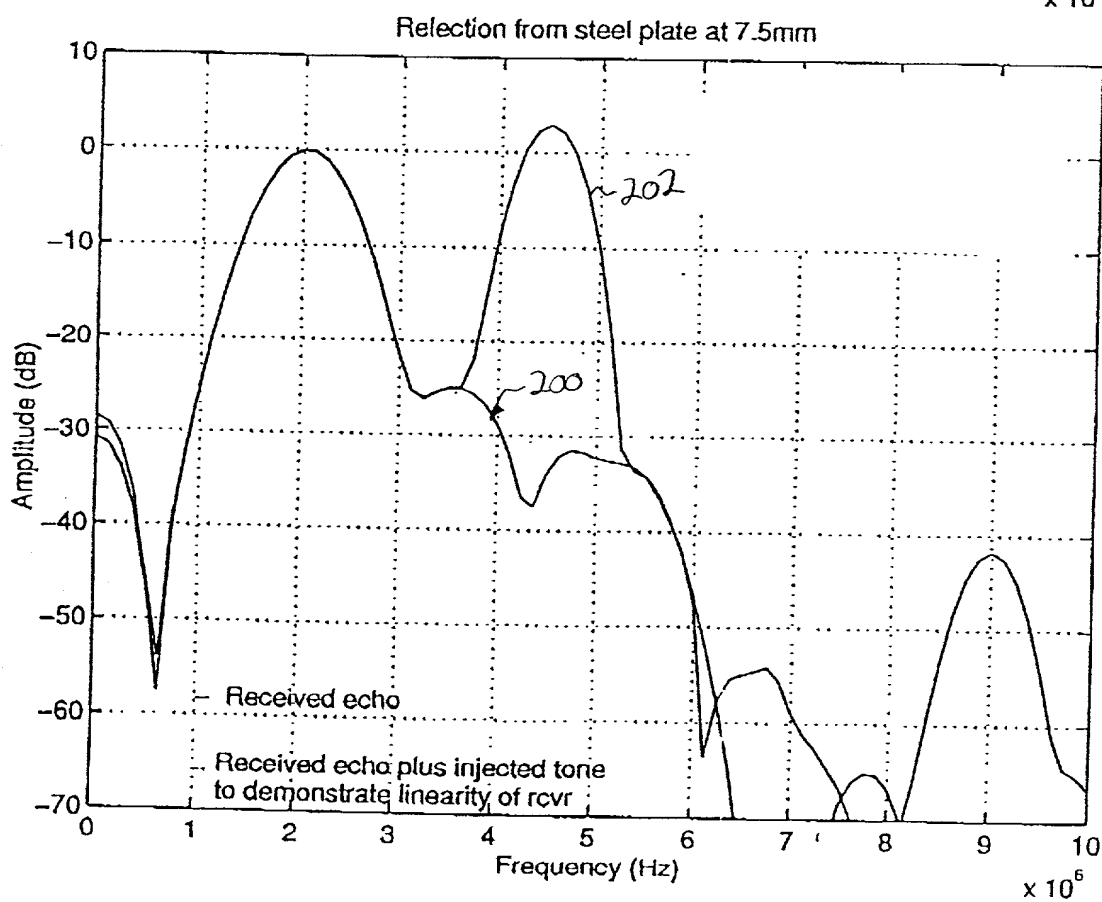


Figure 7B

(A) Source waveform (1): undistorted (—), pre-distorted (---)

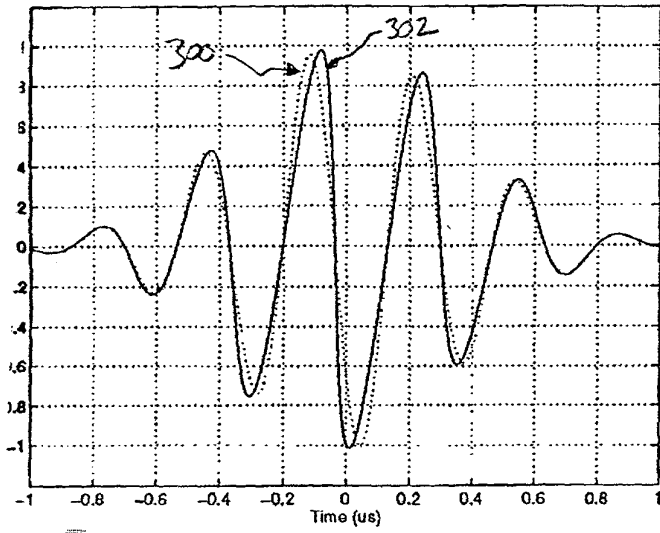


Figure 8A

(B) - Pre-distorted pulse spectrum

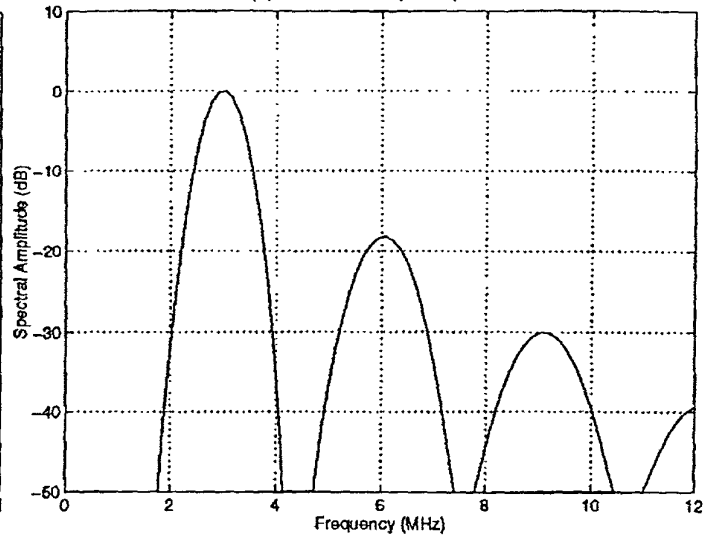


Figure 8B

(C) - Source waveform: fundamental (—) and 2nd Harmonic (---) components

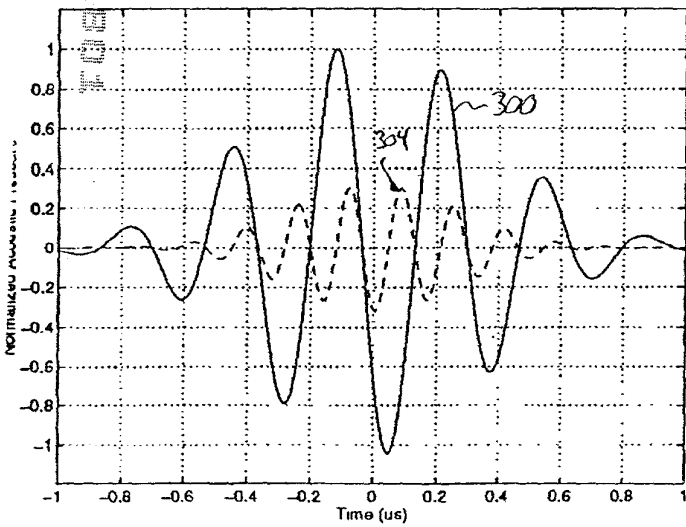


Figure 8C

(D) - Source spectrum: fundamental (—) and 2nd Harmonic (---) components

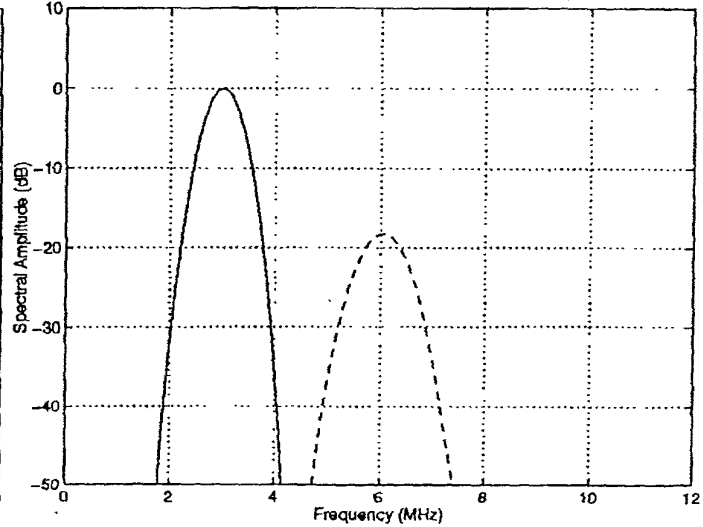


Figure 8D

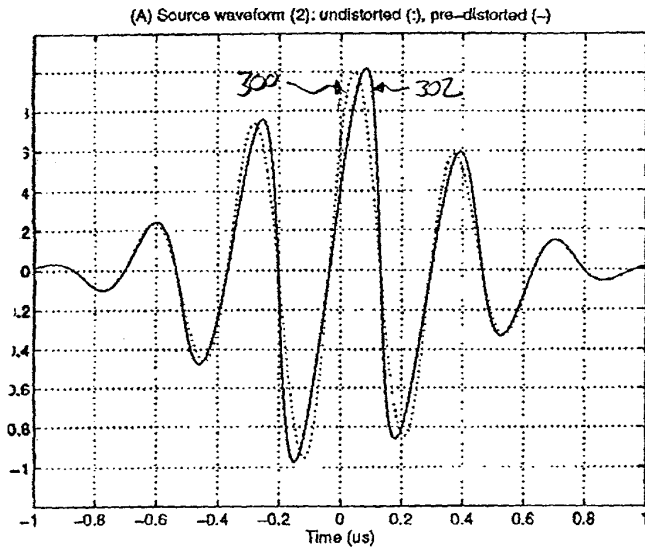


Figure 9A

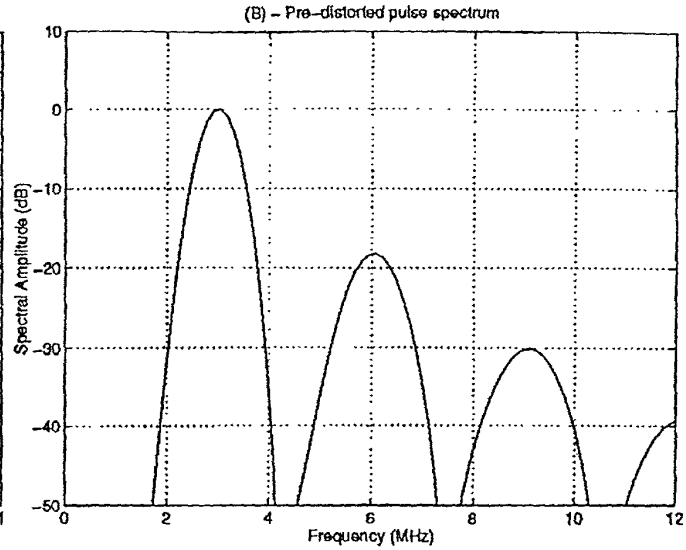


Figure 9B

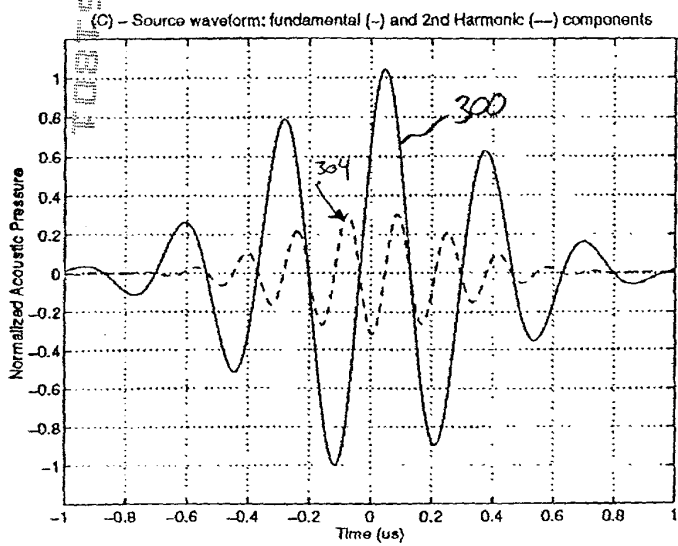


Figure 9C

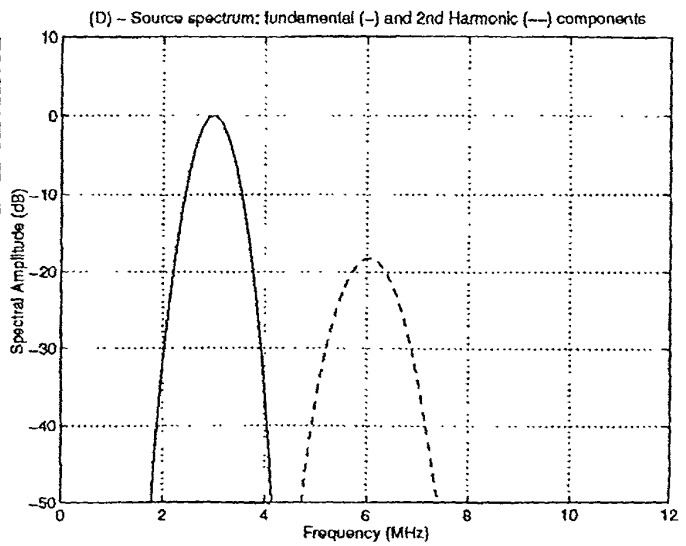


Figure 9D

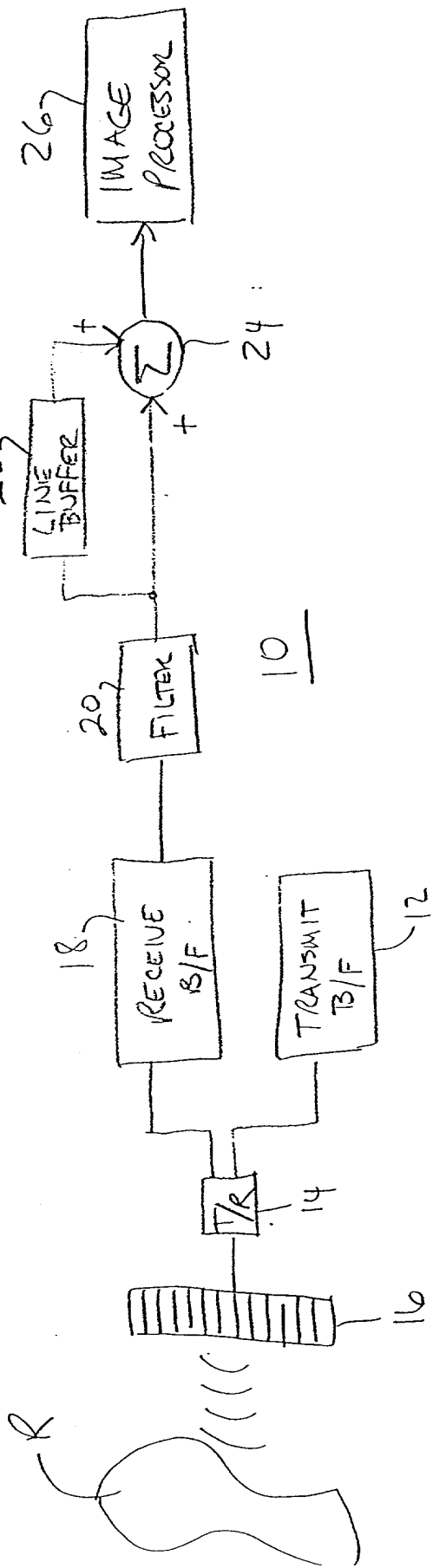


FIG 10



Fig 11a

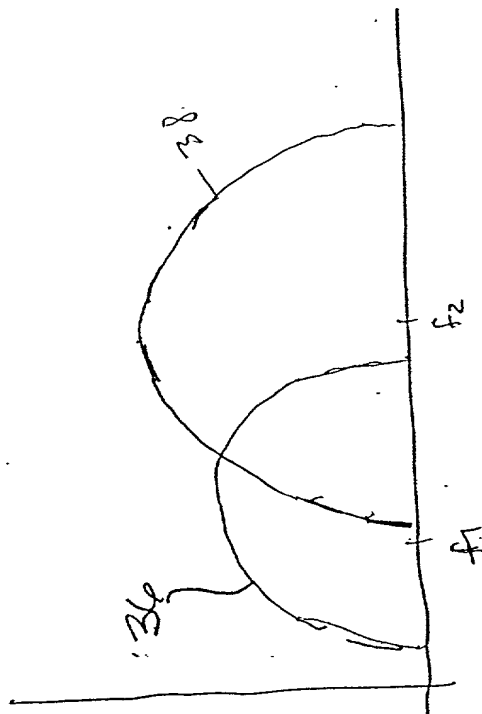
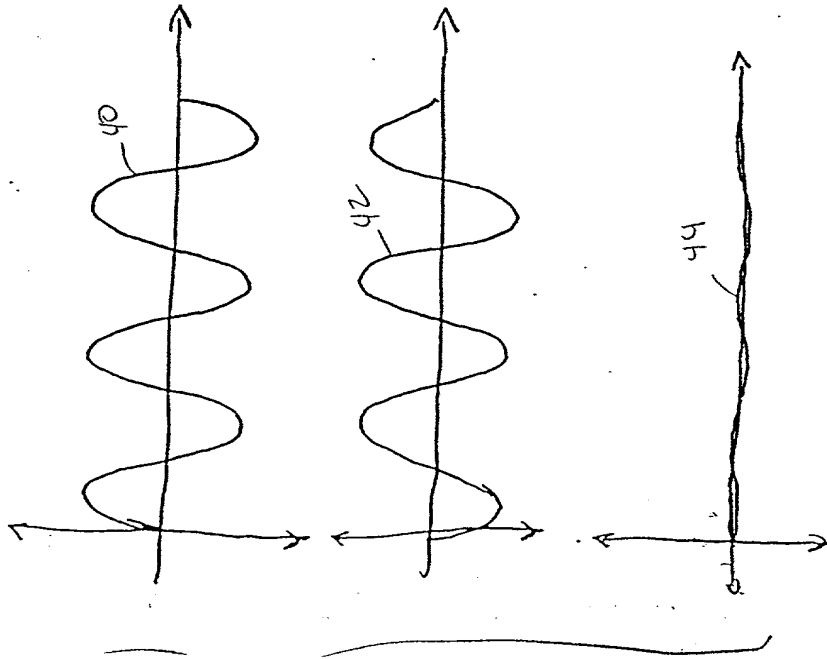


Fig 11b

FIG 12a

FUNDAMENTAL



EVEN HARMONICS

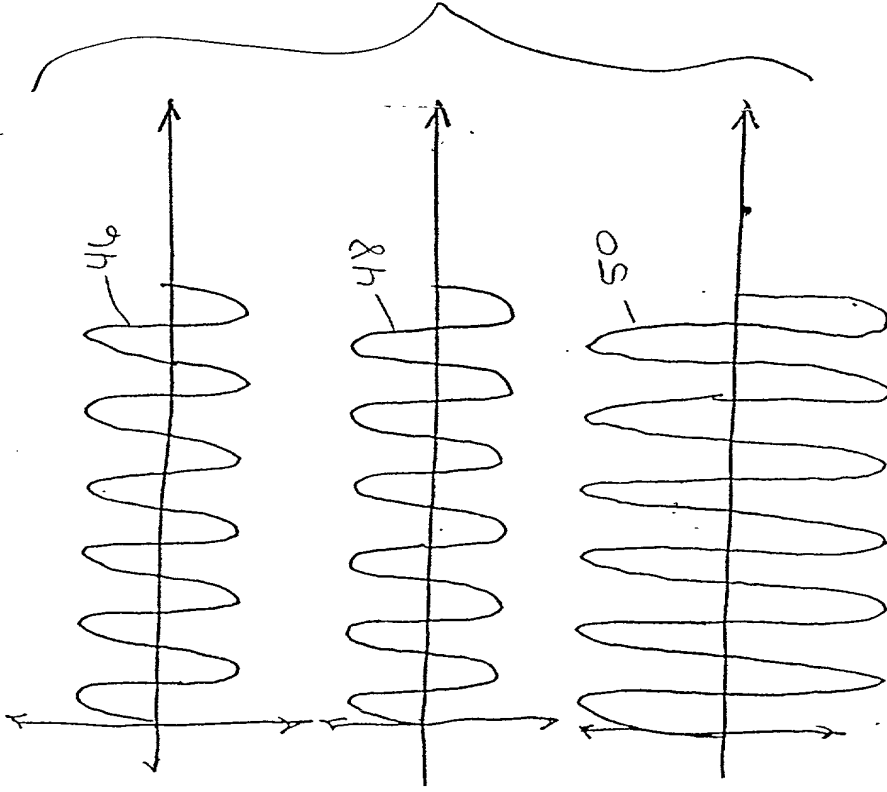


FIG 12a

FIG 12b

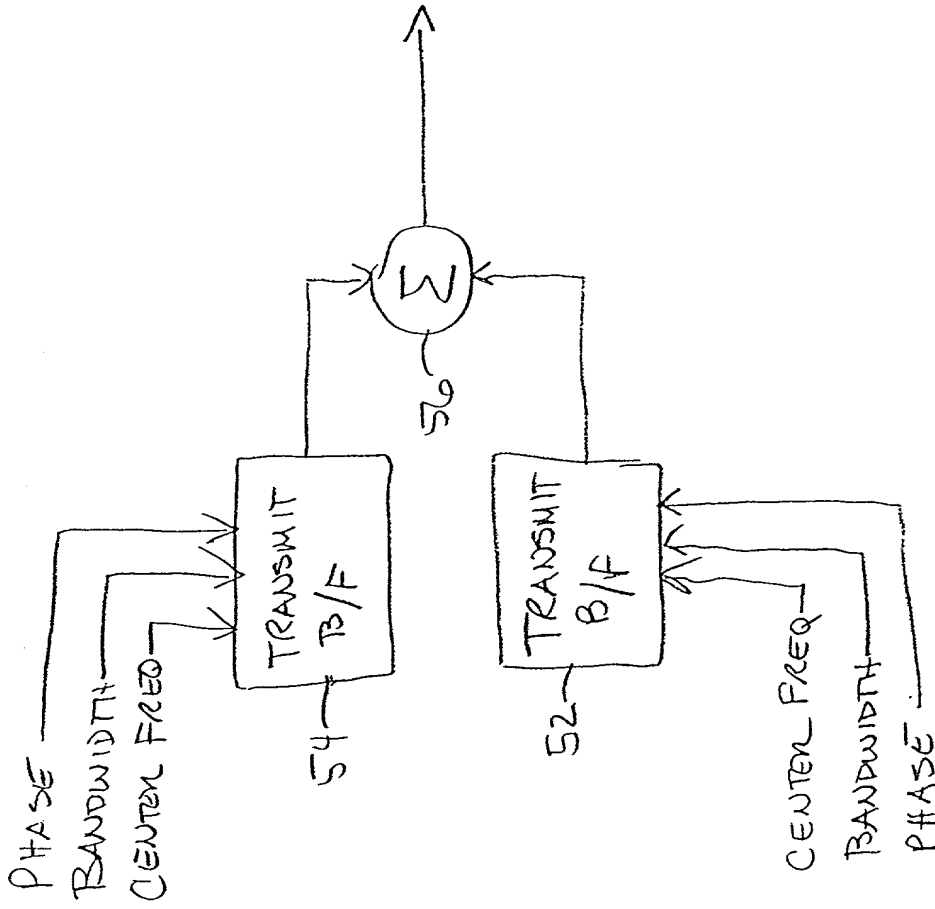


FIG 13

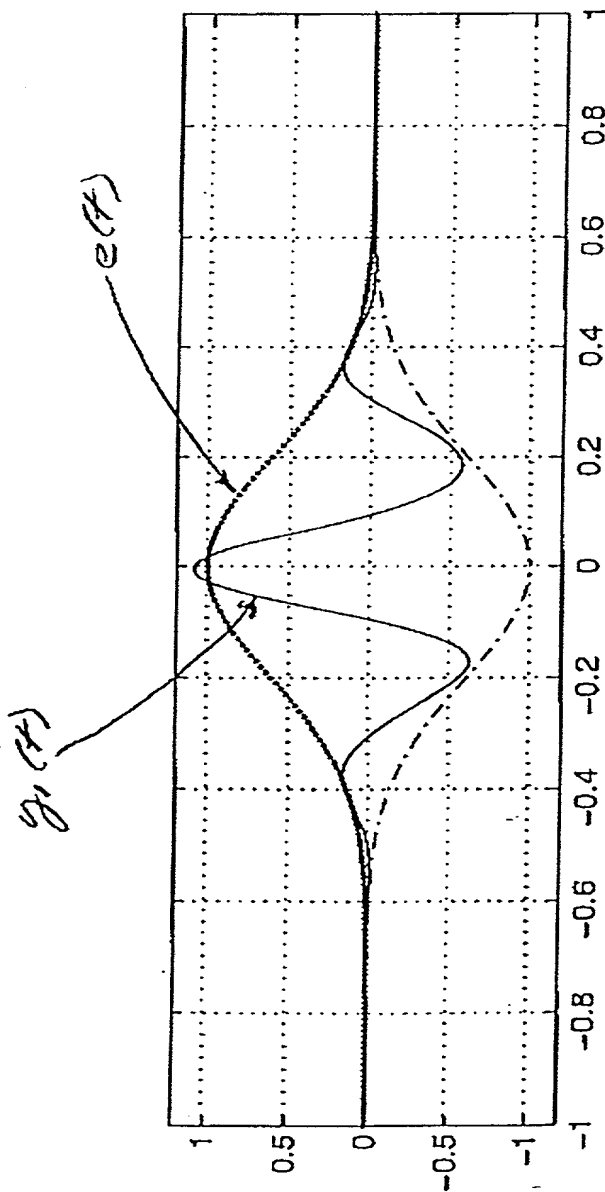


Fig 14

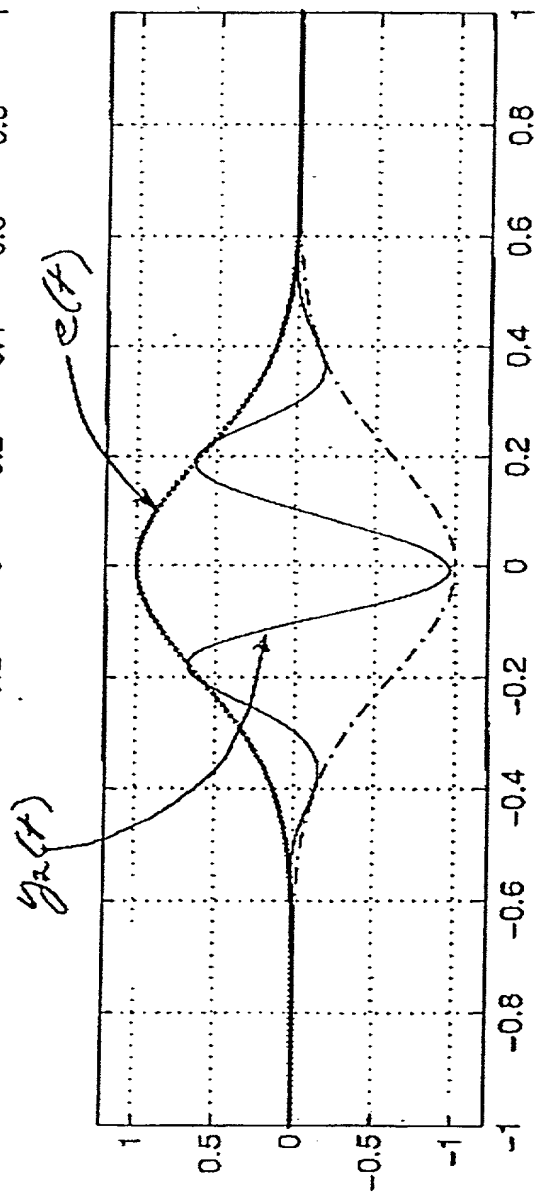


Fig 15

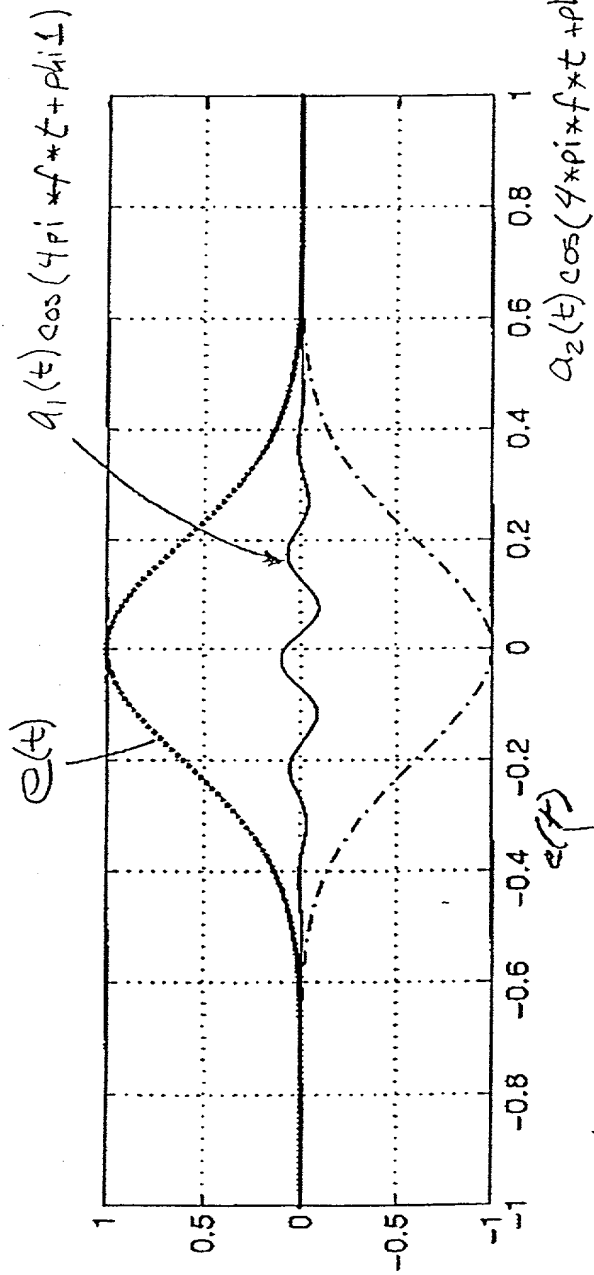


FIG 16

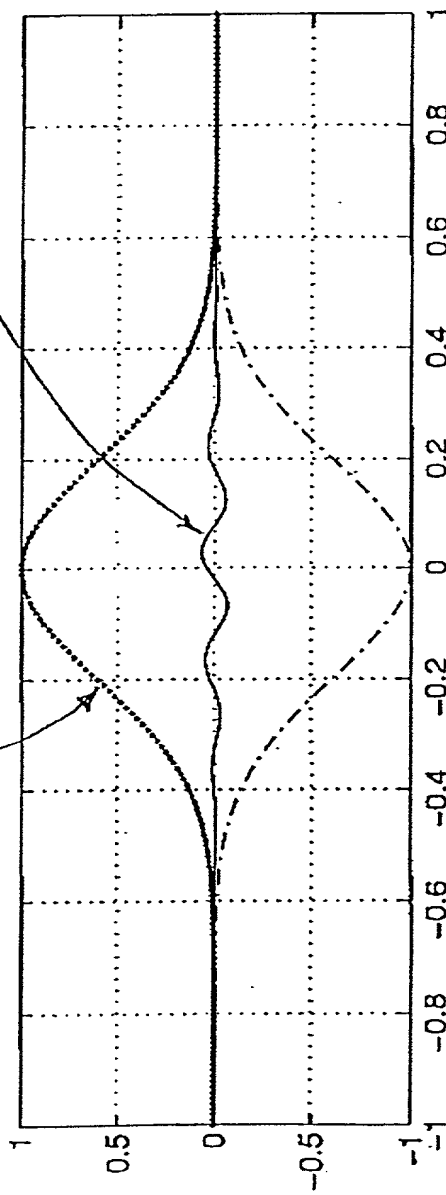


FIG 17

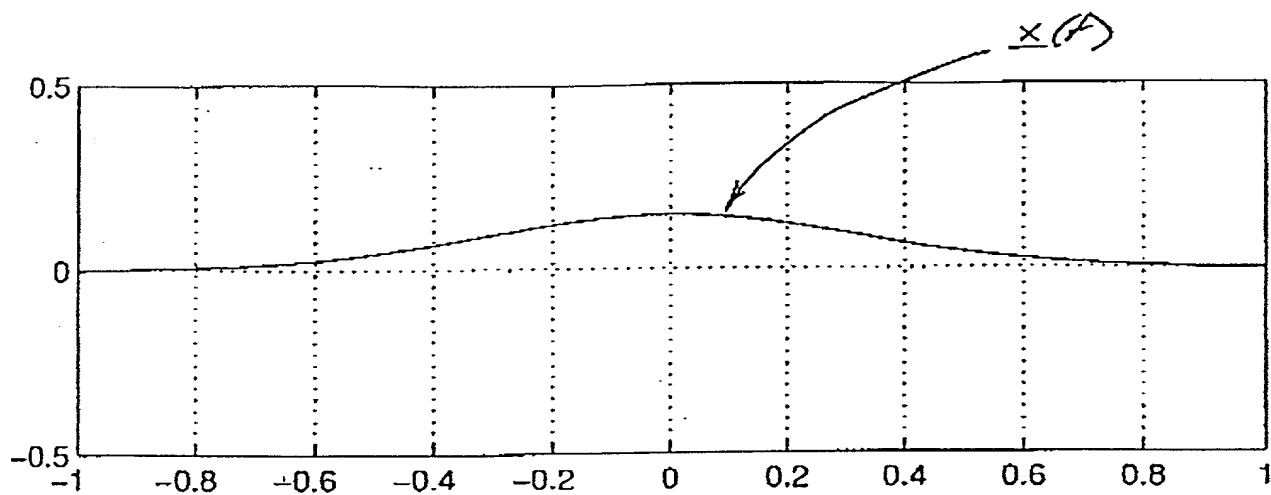


FIG 18

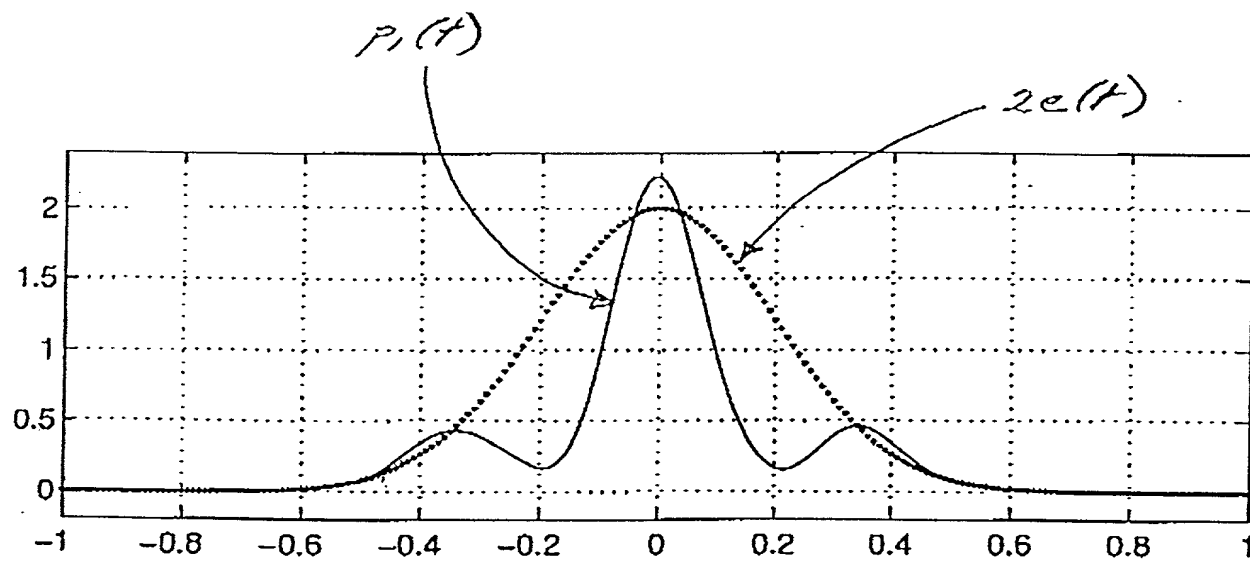


FIG 19

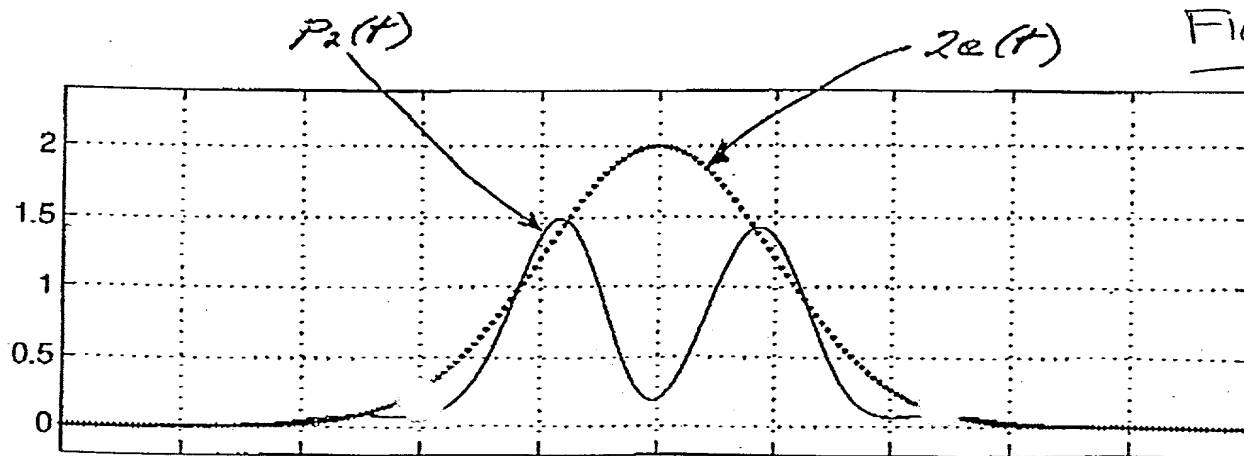


FIG 20

09884407 20448860

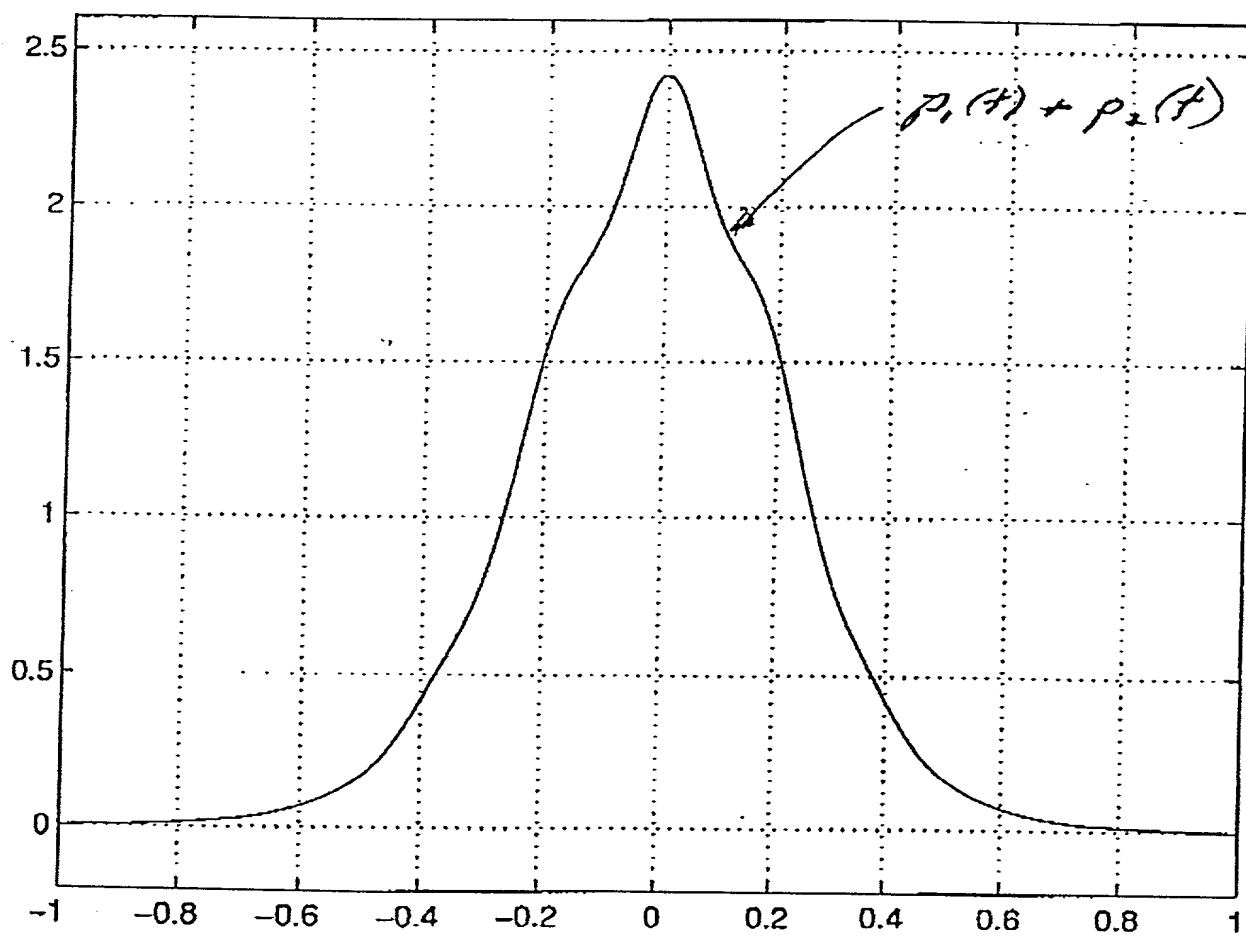


Fig 21

FOI 90-2044860

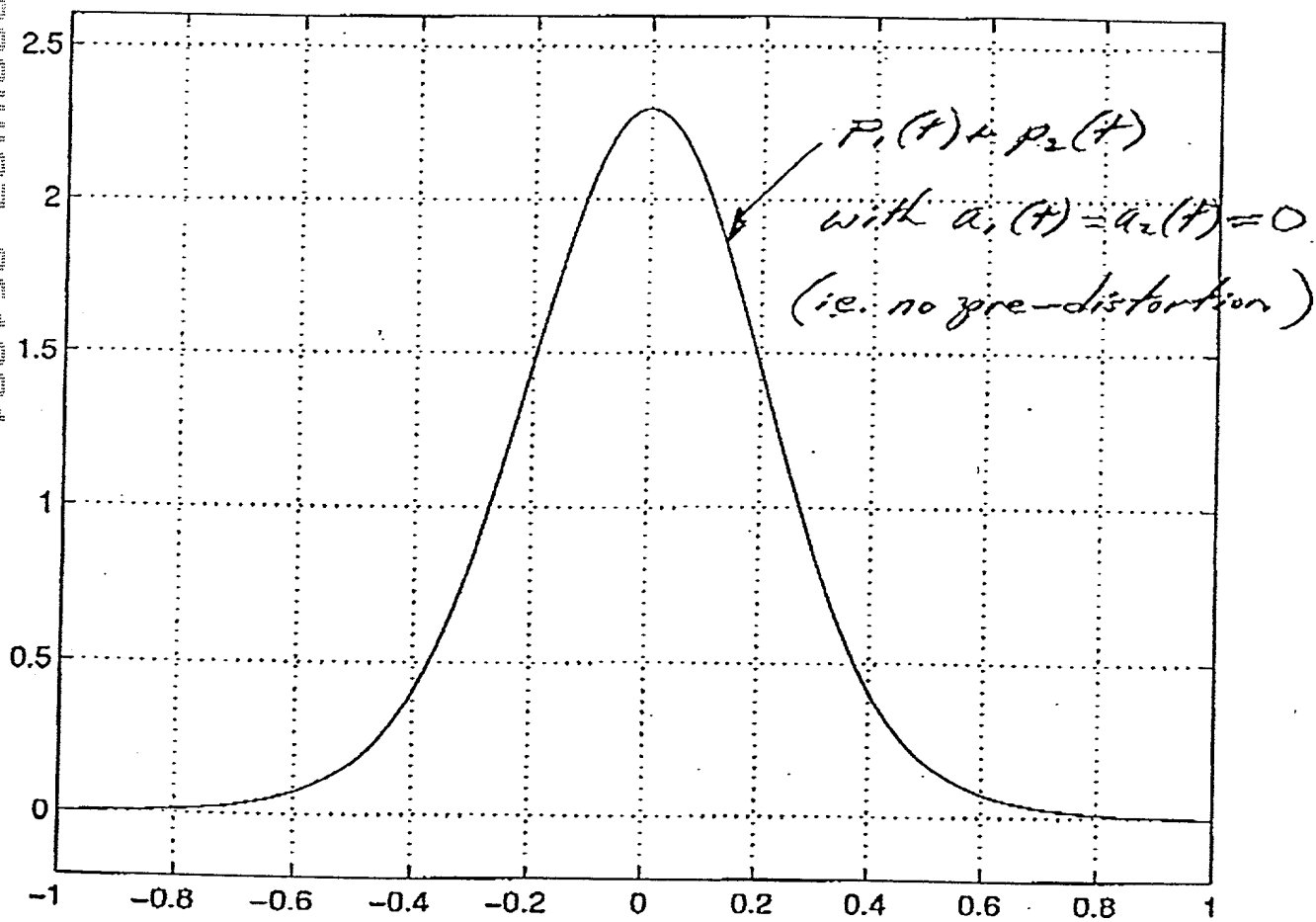


FIG 22

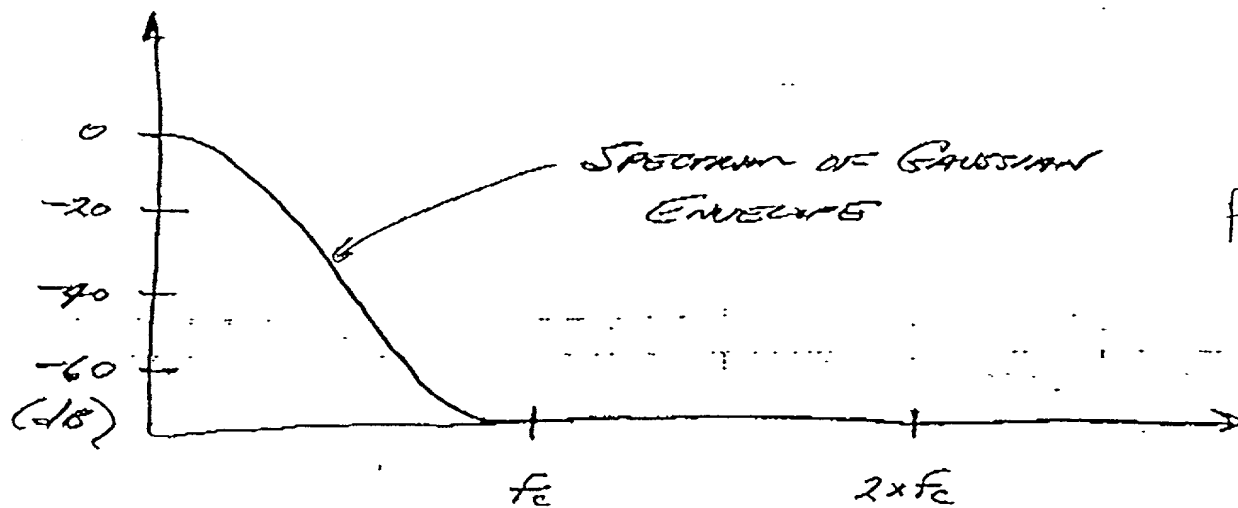


Fig 23

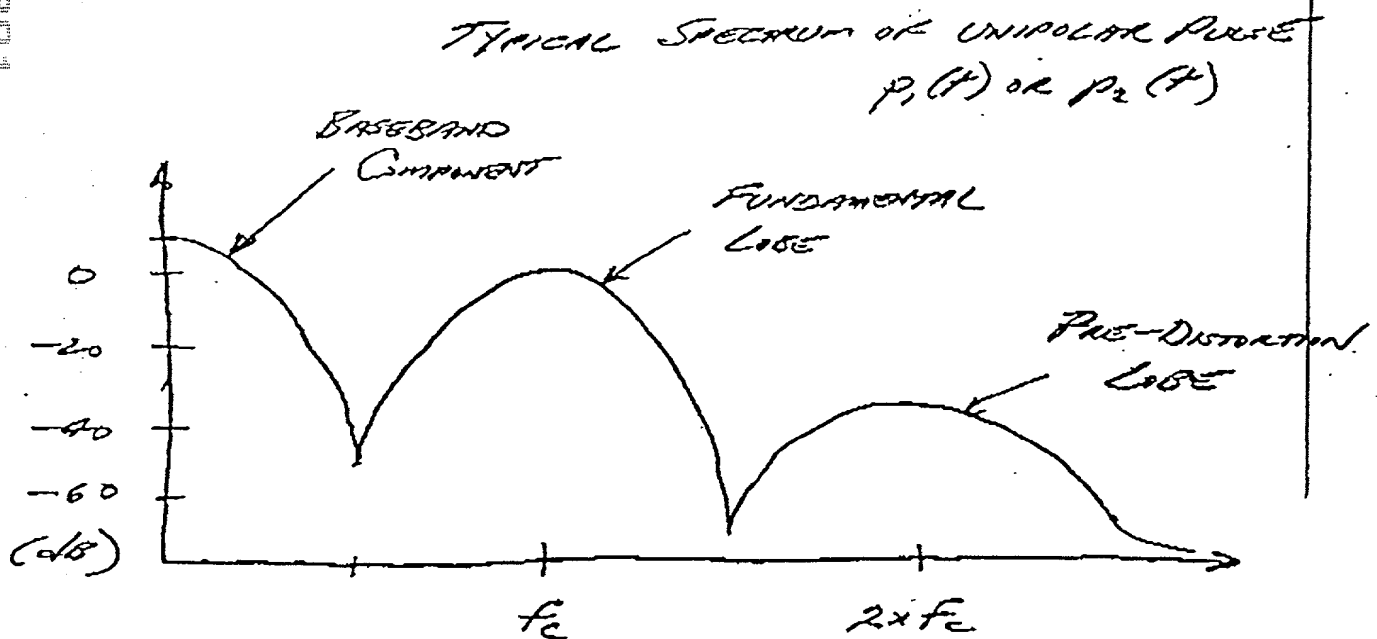
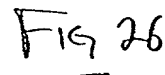


FIG 24

Figure 25 is a plot of the control signal $p_1(t)$ versus time t . The signal is a piecewise constant function with values 0, -20, -40, -100, and 0 over different time intervals. The plot is on a grid with time t from 0 to 200 and signal value from 0 to -100. The signal starts at 0, drops to -20 at $t=55$, to -40 at $t=65$, to -100 at $t=90$, and returns to 0 at $t=105$. The signal remains at 0 until $t=135$, then drops to -20, and returns to 0 at $t=145$. The plot is labeled $p_1(t)$ and Fig 25.



FORM 90-2048360

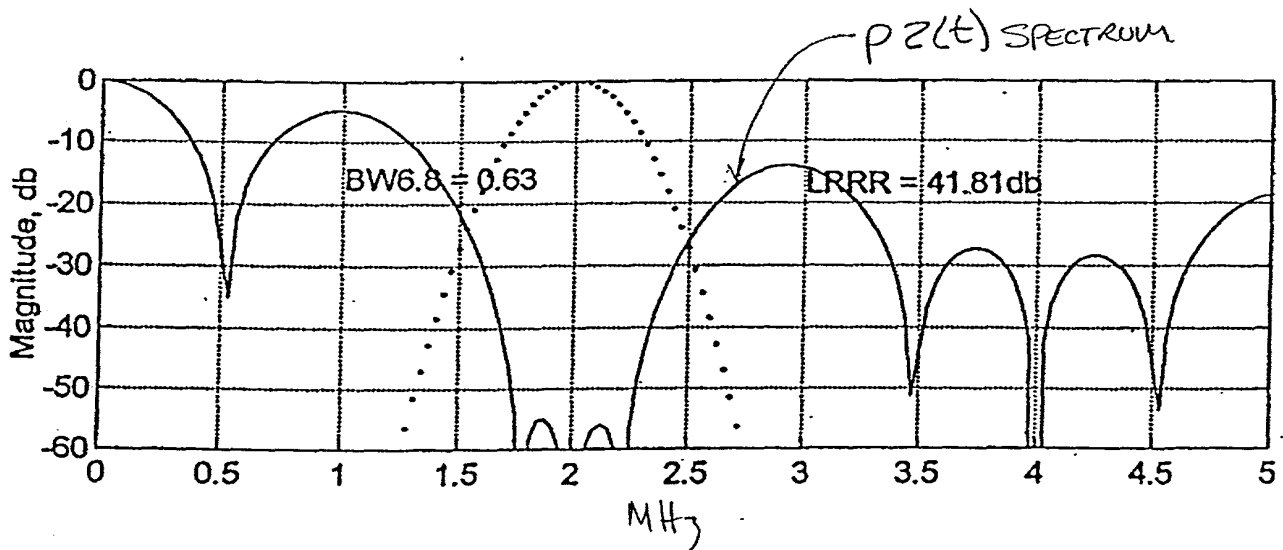
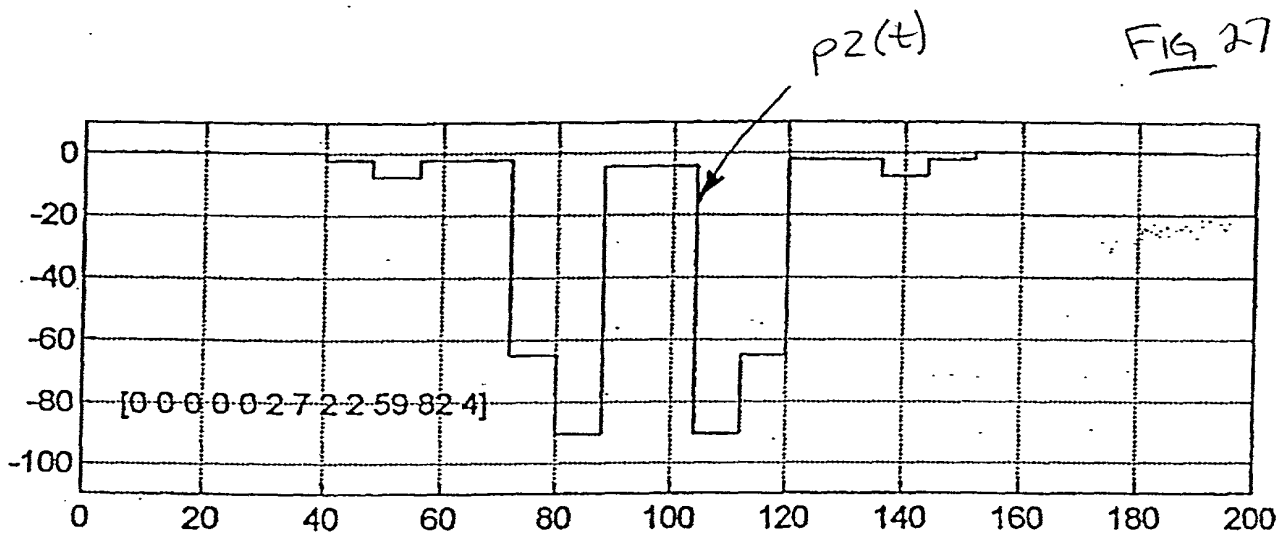
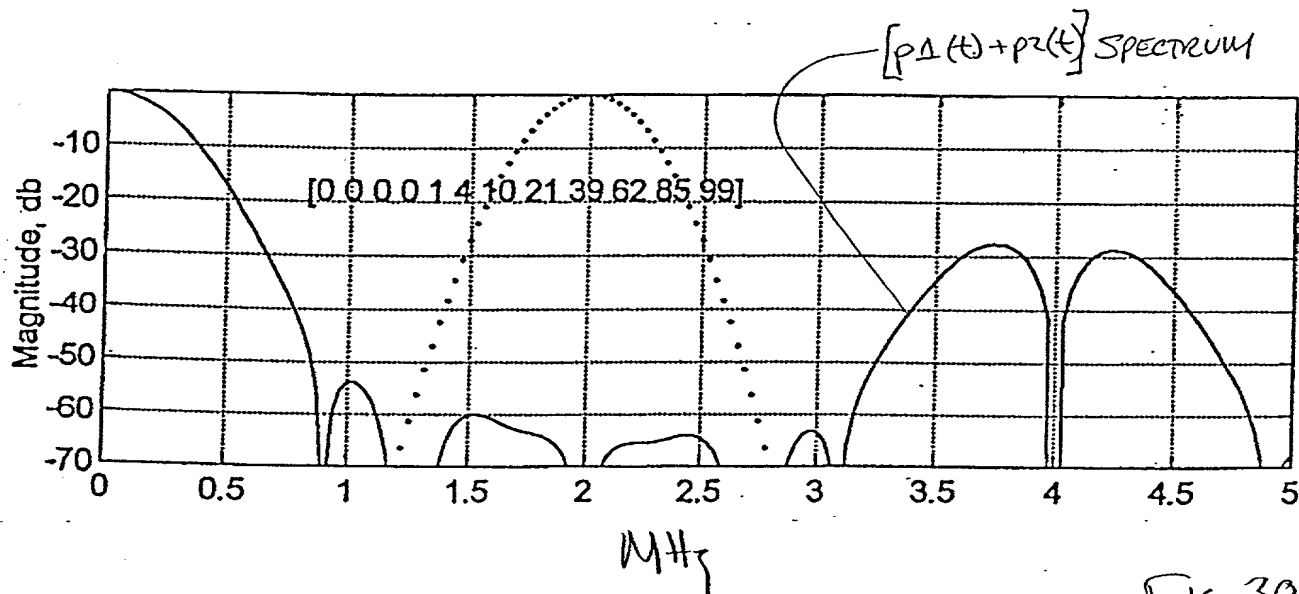
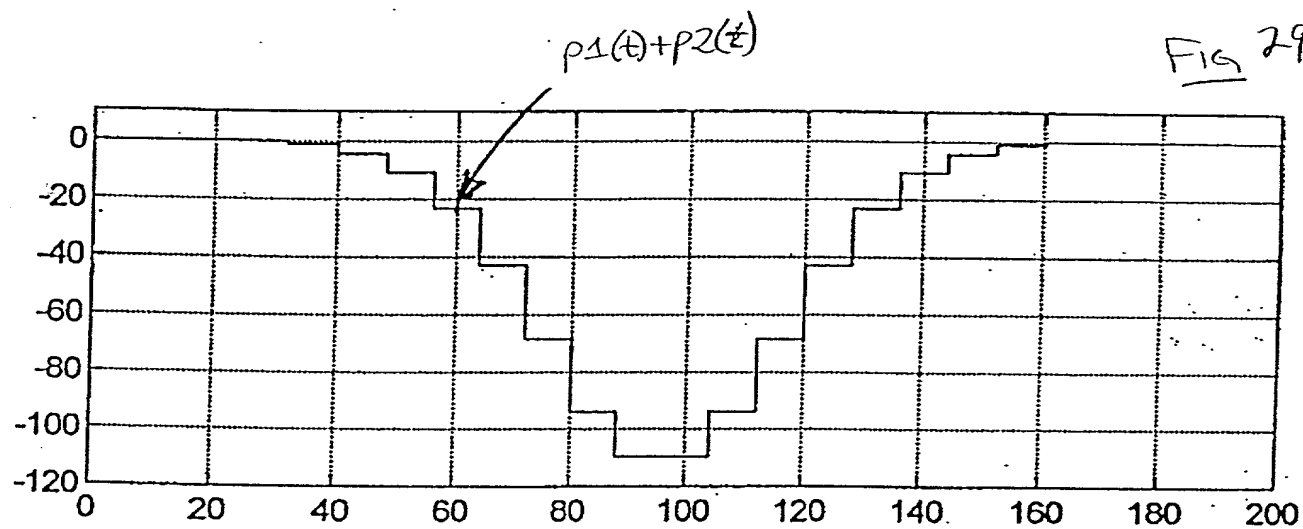


FIG 28

FOOT 90" 20448860



09884407-061801

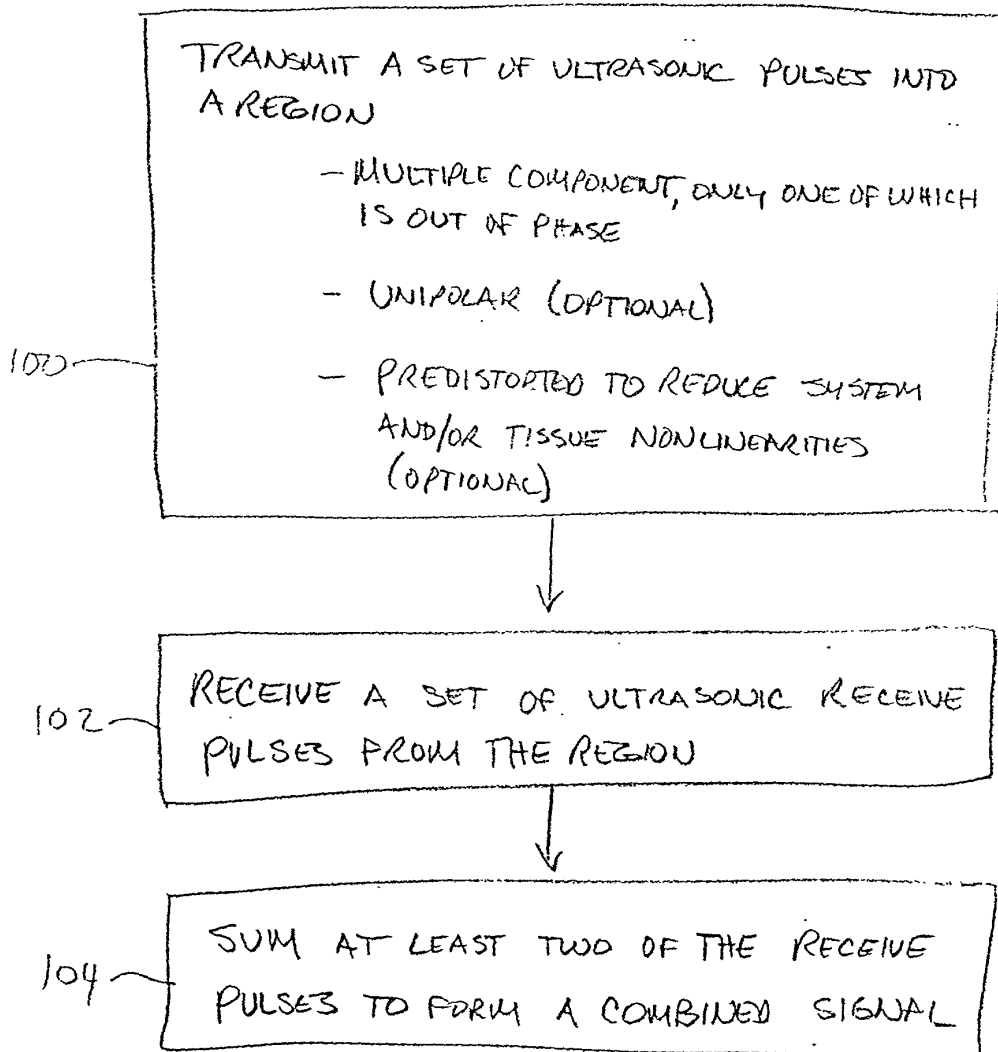


FIG 31